**ECOLOGY WEBQUEST INSTRUCTIONS**

Attached is the rubric for your Ecology Webquest Project. Below is a general outline of what should be included in your presentation.

You can find the webquest through the wikispace under the Ecology link, scroll down to projects and click on the link. <http://zunal.com/webquest.php?w=102187>

**Background** – Earth has been destroyed by human activity. The over use of fossil fuels and polluting of the atmosphere has ruined earth. Earth must now be moved to the moon where engineers have built an atmosphere replicater so the moon can sustain life. However, not all ecosystems from earth can be re-created and re-located to the moon. To choose what ecosystems will be moved, the Earth Relocation Committee has been formed.

You are an ecologist who has been chosen to submit a presentation for an ecosystem to be re-located/re-created on the moon. You must convince the Earth Relocation Committee that your ecosystem is critically important to the survival of the human race; that is MUST be re-located/ re-created on the moon.

You must research your ecosystem and identify at least 5 biotic and 5 abiotic factors which are important in your ecosystem. You must identify how nutrients and energy are cycled through your ecosystem (Remember, energy is food). You must present at least 2 predator-prey relationships which are vital to the survival and balance of your ecosystem. Remember to explain WHY these factors are so important to your ecosystem. Finally, you must prepare a poster that advertises your ecosystem. This will be viewed first by the Earth Relocation Committee and from these posters, they will choose which presentation to view.

**Task – Pick three ecosystems and get ONE approved by me BEFORE STARTING – you can work with a partner.**

1. Research your ecosystem structure and interactions.

2. Identify the major food web in your ecosystem (DO NOT copy and paste a food web from the internet). Make your own food web.

3. Identify and explain the major Cycles of Matter in your ecosystem and how they will benefit the human race by being placed on the Moon.

4. Include at least 5 abiotic and biotic factors for your ecosystem and explain why these are so important to your ecosystem.

5. Identify at least 2 predator prey relationships and why they are important to the health of your ecosystem.

6. Explain in detail why your ecosystem should be chosen to be moved or re-created on the Moon and how humanity would depend on this ecosystem.

7. Create a poster which advertises the importance of your ecosystem.

8. Include a works cited.

Create your presentation and “poster” using Google Drive – you must SHARE your presentation with me. – [scollins@srsd.net](mailto:scollins@srsd.net) – Make sure that you select “Can Edit” on the right side so I can mark the presentation.

You are not presenting anything, you are simply sharing your presentation with me.

Have fun!